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Sir

Chesterfield 21 May 23

Having despatched a Post by Mr Lupton I beg in Canada and by expressing a wish to see a specimen of Pyrus Big ovalis L. Will. d. ii. 1013 in fruit with leaves, being induced to think Michaux must be right in calling it a var. of P. Botryap. w. Th. b. examining Flor. to see Trollius american. Dec. i. 313, at last a flower to dissect.

"Ilex canadensis Michaux" seems to belong to Winterlia Moench. meth. i. 74, & I hope you will find it a better specific name than canadensis. What think you of filipes. We wait for a reform of Ilex & Prinos from you, but I hope you will not divide them from general differences. If I am right in my specimen of P. verticillat. foliis subtus pubescentibus, Prinos. Clayt. a ; & ii can hardly be the plant. — Will. en. i. 394 makes P. vert. glabrous & P. pedicel. subt. pubesc. less than the latter is described fol. basi obtusis! — My P. glaber has fol. nitentia.

Nothing excites my astonishment respecting the distribution of plants so much as the absence of Betula alba in the American flora. It makes me suspect that Michaux's nana must be pumila. I suspect Pursh inserted Ø on the authority of Michaux, & adding that he had seen a dried specimen in the Lambert herbar.

"Ranunculus fascicularis" Dec. i. 291 from Big. who describes the foliola triloba & laciniæ terminalis tripartito-pinnatifidæ, & lateralis trilobæ, not in yr. specimens. You may say also in your Flora whether the styles are adnexa.

"Ranunculus filiformis" Michaux I consider with you to be rept. L. which I hold to be a variety of R. Flammula. I hope you will be able to compare the ripe fruit.

"Stellaria laterifolia" cannot be Linnæus's Siberian plant. Does gracilis accord with the growing plant. Pursh does not say whether Banks's plant was American or Siberian.

"Cerastium arvense" is our plant. Why Pursh wrote "obtusis basi ciliat," I cannot guess. Perhaps what he examined was the B of Bot. m. m.. Wahl. carp. says also "obtusiusculis." & Lieg. "obtusis"! which is not the case with all that I have examined dried & recent. & Moench. Wahl. & Sturm. copy it's! Scop. long ago said "Bot. non sunt obtusa". i. 321, & Moench. Sturm. reapers it under form of the pleonasm of "lineari-lanceolatis acutis"! I shall be obliged to you for maab. i. 225; a specimen in ripe fruit. Ours seldom if ever produces more than 2 seeds in a capsule. C. reflexa

The reference to Vaill. in L. fl. & Hort. Kew. ed. tt. iii. 136 is erroneous, as evident from fig. d. of Vaill. 30. f. 5, as I have long ago remarked in Bot. am. ed. a. i. 478 "Poa nervata Willd" is a beautiful little thing. Would it not be better to call it septentrionalis in which case the name is almost a specific character though methinks phylla septentrionalia in Poa equal. &

"Briza canad." Michaux i. 71 which I received from D. Cutler & named Poa glabra not having then discovered the pedicles to be scabrous perceptibly only by a microscope or good lens. I will venture to say it is P. aquatica. Pursh i. 80. Michaux's plant found by you & D. C. in N. Engl. & N. York could hardly escape the searching eye of the American Petiver. My name wont do. If the leaves to be scabrous. — The epithet brizoides is preoccupied. Will it bear the name of inclinans. or may it not merit the appellation of glabriflora. If you correspond with Mr Nuttal you may learn whether the descr. in the errata p. 11 is made from the same plant as the descr. at i. 69 note, & also whether at p. 69 sh. 1. "virens?" means that B. virens has been supposed to be a nat. of N. America, or whether he conjectures B. virens Well. Pursh i. 82 to be the same plant with B. canad. Michaux. Glad to examin some of the Poa & Briza Eragrostides of America.

"Poa reptans" Michaux i. 69. tt agrees with Pursh. but not with the character of "minutissime puberi"; nor is "calyc. subcapit. fasc." characteristic, nor are the spikes to be called long, nor the flowers subaristate. Like Lamarks name is Pers. ench. i. 91. n. 48 & Roem. & Schult. ii. 589 of P. hypnoides, but then the fem. spikes are described "50–60 flor is"; long indeed! & the spikes are microscopically puberulent. His editor perhaps misunderstood Michaux. Mr. N.s expression of "Ambiguous sh." is ambiguous indeed. If you correspond with him I shall hope to know whether he considers it as a variation of some of the others. But your flora will make all ambiguities.

"Trichodium laxiflor." Michaux i. 42. t. 8 is Agrostis scabra L. als. for this is such an Agrostis anomala L. a. w. had a calyx, diphyllous though the inner phyllum is minute. These scarcely differ, & are probably varieties. Your who have seen both growing can better judge. I once cultivated Panicula anomala as in your Flora. I shall be glad to read at what period of its growth it has the panicula divaricata of Michaux fil. In your Flora I hope to read at what period of its growth it has the panicula divaricata of Michaux fil. I. Walter or Fraser the species alluded to by Mr Nuttal. We call Richardson an enthusiast.

"Lenima arundinacea" L. is Agrostis Lenima, Willd. enum. i. 95. I will say what I think of it before I close my letter.

Agrostis mexicana L. Willd. i. 46 is a different plant from Calamagrostis mexicana. Nutt. i. 46.

"Leersia oryzoides" L. alk.Willd. is the same plant with that of Germany.
L. ——— virginica ——— is I think, specifically distinct, tho Michaux thinks otherwise
I wish I could see them in fruit.
I shall hope for specific distinctions in your Flora of Iris verg. & versicolor from the fruit, for
til I see the fruit of both I must regard them as varieties of one species I. versicolor.
"Phalaris arundinacea" is the same with that of Europe.
"Holcus fragrans" L. alk. I consider as a variety of H. odoratus variations of the European variety having been
quadr. species! but if you hold an opposite opinion I will supply you with arms against myself &
with which you will perhaps overcome me. The inner structure of the intermediate flower in H. fragrans
is dinerous, & in H. odoratus uniformly! in both varieties of H. aristate & muticous.—
H. lanat. L. from D. Cutler. How singular that you have yet found H. mollis, unless Aira mollis.
Nutt. i. 62. n. 9 be the plant.
If Spiraea hypericifolia be an American plant how did it escape the observation of Michaux.
S. Aruncus, fol. bipinnati is flor. b. hermaph. & masc. Jour. de M. 31. & M. Laurent in the Pyrenees. I insert it
because omitted to be referred to by our compilers, & that you may compare it with the American plant.
I shall be very thankful for a specimen of S. hypericifolia in fruit, or any of its allies as p. 342 of Pursh i.
"Festuca nutans Willd." enum. i. 116 I consider as a Poa not admitted. his dissect. of fam. liber in trad. mal.
"Alopecurus geniculatus" is B. L. fl. i. 89 with glaucous petioles. It seems to be A. aristulatus Michaux
A. carolinianus. Walt. 74 is described & stamis lanibus.
"Panicum latifolium L." I have also gathered by Dr Johnson in Pensylvania. I refer to P. virtuto
panicular. fl. mus. Clayt. a Gron. ed. II. ii; ed. I. 12 with Kalm. J. amer. but I have not Pluk. at hand.
"P. virgat. L" is an interesting novelty. Your flora will say whether the panicle is alw. so large.
"Spartina cynosuroides" Roth & Willd. en. is an interesting specimen. The compound spikes in
Lin. fil. fasc. t. 9 are resembled as spatulous, which in yours are adpress. What is Dactylis.
Clayt. a Gron. ed. II. 12 whose spiculae are muticous. Probably Trachynotia, uncea Gaer
bractiata, in whose fl. characters in Pers. ench. no notice is taken of arista.
"Elymus Hystrix" is too ripe for me to find clear Nuttal's rudiment of a bractea.
"Trichophorum cyperin." Pursh I call Eriophorum cyperinum with Linnaeus. I shall be
much obliged by you for a specimen in fruit.
"Scirpus tenuis Willd. en." is S. capitatus Lam. fl. i. 71, from Clayt. a Gron. 12 ed. i, but
whether the indefinit name of capital. is worth keeping may admit a doubt. tenuis is
scarcely better. I have it in flower & fruit from D. Cutler. How happend it that D. it escaped
the observant Michaux, for his S. tuberculosus for a specimen of which I long for in fruit, must be distinct.
I refer also to S. ovat. of Pursh i. 54.
"Scirpus acicularis L." "trichodes" Muhl. is as you observe "not very distinct from S. acicularis
I cannot distinguish it but by its stems being as broad as 2/3 of the hair of my head & the
European plant is as broad as 1/3 of the same hairs. I shall be glad to see the specimen
S. capillaceus Michaux i. 30, S. pusill. Vahl. en. i. 266 is probably a variety of it.
Linnaeus speaks of it as mostly growing under water.
"Plantago cordata" Pursh i. 98 appears to me a variety of P. major, in which last the
leaves are as cordate as in P. cordata. There is a brown lobe lanugo at the base of the petiole in
P. cordata. I shall be glad to read in your flora a descr. of the living plant, especially of the calyx.
Pursh says P. major is common with you
"Rubus hispidus" L. from a garden. Linn. described it from a specimen gathered by Kalm
in Canada. How did it escape Michaux & Pursh for the latter subjoins the cross of noncinnati,
tho he gives a new fl. ch. & says what species it resembles! I hate marks. It does not seem to
be a variety of what I referred to R. flagellaris Willd. en. i. 549. The flowers at least are
twice as large in R. flagellaris.
I long for N. American Sarmacoce & Diodias to compare with West Indians.
I long for "Smyrnium integerrimum" L. I refer with Sprengel ap. Roem. & Schult. vi. 610 to Sison, but the
inspection of ripe fruit may perhaps bring me back to Smyrnium. But if a Sison it is Amomum.
Lycopod. of Bot. mat. med. ii. 141, following Pursh P. Aroisum.
Lycopod. lucidulum Michaux is an interesting plant. — L. reflexum Sw. fil. 175 is perhaps the better
L. Selago L. is rightly also. Lucidulum in the language of Linn. implies also diminutive size.
Lycopod. complanatum L. is the same with that of Europe, but the branches of your specimen are
narrower than any of my specimens, whether from N. Engl. or Germ.

Mr Elliot of Boston will be carry with him to America, this spring agreeably to promise
I am from sending me Bigelows fl. boston. & a cat. of plants growing near New York. & to Albany 1819
under which articles in the list of books which I wished Mr Lupton to procure for me, you wrote "shall be
sent," he will endeavour to procure them for me & should you have sent them of he will repay what they cost.

"Gentiana crinita" Linn. Willd. was named in my letter about 1789 to gl to Dr. Cutler
G. fimbriata cor. 4fida, laciniis ovato-oblongis ciliatis, but it was reserved for your sagacious
to shew me this American beauty in her native freshness. Her Meadow Bluebell. Cutl. in
amer. acad. i 411.

"Helenium autumnale" L. — My specimens are pubescent, some both naked eye, & with a lens
H. pubescens W. Pursh very justly makes his β. I wish you would find us a better name
for a syngenesious plant! What say you Americans whose fields are growing to rags
"Panax quinquefolia" L. is a most acceptable specimen. I hope you will be able to sow fertile
seeds & observe whether the cotyledons are alternate as Linnaeus's observation intimates.
"Rhus Toxicodendron" I should rather call R. radicans. Pers. ench. i. 325 n. 19 β, unless you
can support Linnaeus in his R. Toxicodendrum adopted from Clayt. & Gron. I should like to
examin the fruit of R. Toxicodendron β & γ Pursh i 205. The name of R. quercifolium does not
accord with any of my specimens. Mr Nuttall still thinks them distinct but does not state why.
I hope you will establish the boundaries between them, whether varieties or species. I have never
seen folia lobata obcordata as in Miller Rh. Toxicodendr. only. I wish for the most pubescent.
"Gaultheria hispidula" if you have found the calyx changed into a berry like substance as in
G. procumbens, should be called serpyllifolia, not only because characteristic but because G.
hispida is the name of antarctic species. I hope at a future day to be favoured with a recent berry.
I have specimen gathered in Rotheyslet's garden the capsl. was foreshortened. In Michaux's fig. the
fruit is a bacca the work I suspect of the draughtsman or engraver.

You have got long ago I doubt not Steudels nomencl. an elaborate work without which
not botanist can venture to name a plant or look out for a letter. Dec. Prodr. i & Syst. ii reached
& Trattinnick Sprod. Bot. pars
upon perhaps before me. Hoping that this spring may have brought out your flora I remain
with much respect Sir Yr. obliged & obed. Servt
Jonathan Stokes.

6 July 24.

I have the pleasure to say that our & Mrs Lupton & their family have enjoyed good
health since their return

Boston 2d Sept. 1824. Mr. Eliot has just returned from England, & has the pleasure to forward the above letter to Dr. Torrey from Dr. Stokes, takes the liberty of requesting Dr. Torrey to inform him if the books desired by Dr. Stokes have been forwarded to him. If not, Mr. E. will charge himself with the commission. If Dr. Torrey has incurred any expense on account of Dr. S. he will be happy to be permitted to liquidate it. — Mr. E.'s address is Saml. A. Eliot, Boston.

MAR 4 - 1907
Given by A. M. VAIL. from the D. D. Brothe Collection

Jonathan Stokes.

May 21, 1823 - July 6, 1824

Read. Sept. 1824

Jr. Torrey

New York